ADAMS

Sun Heat

Low Intensity Infra-Red Heaters

Sizes to fit Your Needs.....

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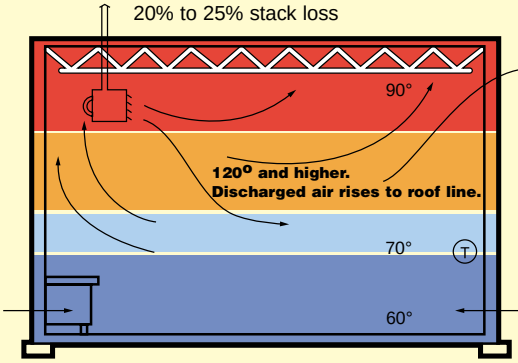
“ Sun-Heat” radiant system directs the heat down where it belongs… fuel savings of 30% to 50%

Compare conventional warm air to infra-red radiant heat.

Warm Air



High temperature or static pressure at the roof line increases heat transfer through roof.

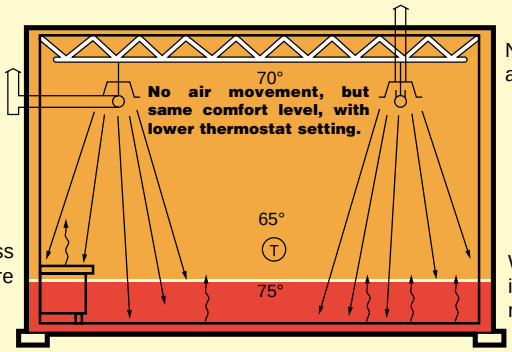
The higher the bay area, the higher the static pressure.

Because of air movement in the building space, thermostat must be set higher to achieve comfort level.

Negative pressure at the perimeter of building allows for infiltration.

Cold floors in most cases are 10° less than thermostat setting.

Listed by CSA for vented or unvented application.



Low stack temperature 300°

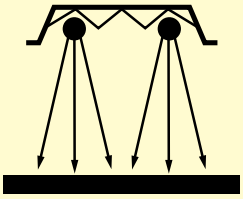
No stacking effect; greatly reduces static pressure at the roof line, reducing costly infiltration.

Reradiation from concrete mass results in even temperature throughout the building.

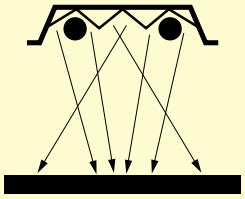
With the comfort of warm floors, building is heated from floor up instead of from roof down.

What is infra-red and how does it work?

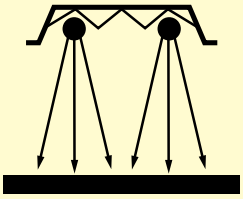
Radiant Heat



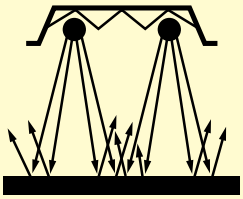
Infra-red rays travel in divergent straight lines from heat source to all surfaces and objects without heating the air they pass through.



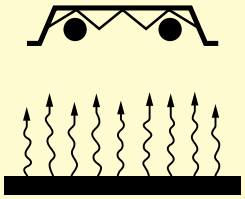
In addition to those rays which travel directly from the heat source, other rays are re-directed downward by a mirror surfaced reflector.



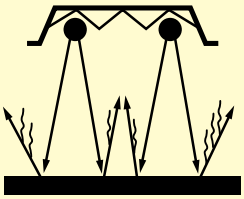
A portion of the ray’s energy is absorbed by cooler receiving surfaces. Conduction carries some of the heat deeper into the heated material creating a heat reservoir.



The balance of the radiant heat is reflected from the heating surface to be absorbed by surrounding cool surfaces.



As a secondary effect, the room temperature is raised by convective transfer from the heated surface.



A part of the secondary ray energy, now of longer wave length, is absorbed by moisture and particles in the air, which helps to raise the temperature.

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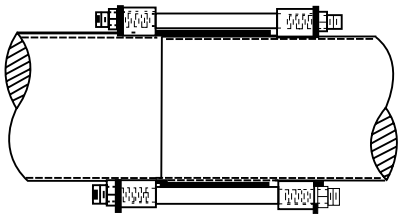
Sun-Heat Standard System Features

GAS BURNER

- Burner and controls CSA listed for United States and Canada
- Hot Surface ignition and electronic safety – No Pilot
- 60,000, 80,000, 100,000, 125,000, 150,000, 175,000, 200,000 Btu/hr input sizes (natural or propane gas)
- Combustion Air inlet collar
- Sight glass for monitoring burner operation
- Combustion air proving differential switch
- Electrical & gas controls separated from combustion air stream
- Burner Housing 18 GA. galvanized steel
- Electrical – 120 volt/60/1 ph
- CSA listed for Vented or Unvented applications
- (1) year limited warranty

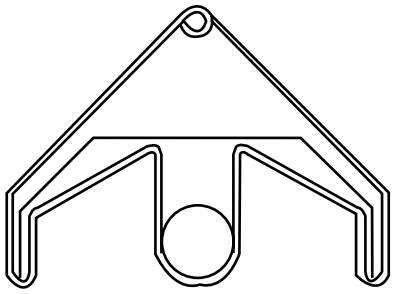


FLARED PIPE FORMS

Male-Female Type Connection
Compression Fitting
No Clamps or Draw Bands

TUBE SYSTEM

- Combustion chamber – 10' x 4" OD, 16 gauge aluminized steel with flared burner mounting flange
- Heat exchanger – as required, remaining system comes in 10' or 5' 16 gauge aluminized steel
- Flared fitting pipe connector with draw bolts at each joint for solid compression type fitting – no gaskets or draw bands
- 20' to 70' systems – Straight systems or optional “L” or “U” shaped systems using 90 deg elbows. (see schedule for tube lengths available)
- 10 year limited warranty



REFLECTORS

- High polished parabolic reflectors standard
- 8' or 4' lengths
- Reflector shield and tube system supported by heavy gauge wire hangers placed approx. 7' apart

OPTIONAL FEATURES

- Outside combustion air inlet hood with flexible 4" diameter duct
- 90 deg elbows for “L” or “U” shaped configurations
- Diffuser “V” reflector for low mounting applications
- Vent cap adapter (4" dia steel to 4" dia class “B” vent pipe
- Line voltage thermostat
- 24 volt relay to convert line voltage thermostat to 24 volt thermostat
- Burner “ON” running light

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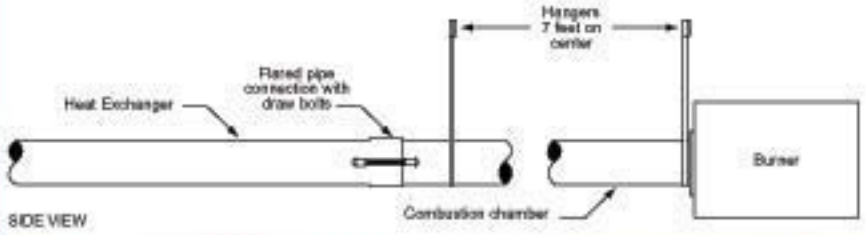
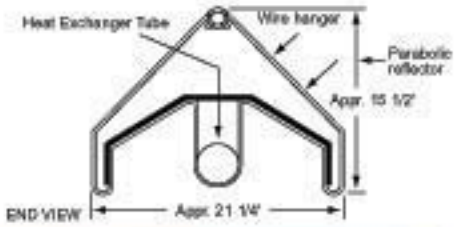
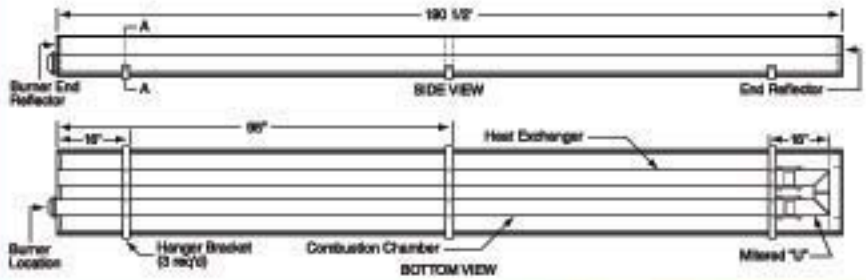
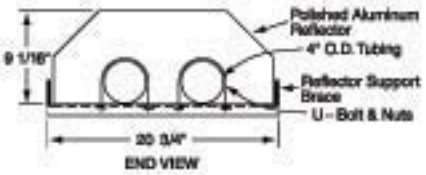
Adams ASH Series Radiant Tube Specifications





Model No. and Tube Length	BTU/HR Input (Nat.-LP)	Average Mounting Height	Radiant Surface (Sq. Ft.)	Clearance to Combustibles			Manifold Pressure		Shipping Weight (Lbs.)
				Side*	Above Reflector	Below Reflector	Nat.	LP	
ASH-60-20'	60,000	10' - 15'	20	20"	2"	50"	3.5" W.C.	10" W.C.	170
ASH-60-30'	60,000	10' - 15'	30	20"	2"	50"	3.5" W.C.	10" W.C.	200
ASH-80-30'	80,000	10' - 15'	30	20"	2"	50"	3.5" W.C.	10" W.C.	200
ASH-80-40'	80,000	12' - 18'	40	20"	2"	50"	3.5" W.C.	10" W.C.	230
ASH-100-30'	100,000	12' - 18'	30	20"	2"	50"	3.5" W.C.	10" W.C.	200
ASH-100-40'	100,000	14' - 22'	40	20"	2"	50"	3.5" W.C.	10" W.C.	230
ASH-100-50'	100,000	14' - 22'	50	20"	2"	50"	3.5" W.C.	10" W.C.	260
ASH-125-40'	125,000	15' - 25'	40	20"	2"	70"	3.5" W.C.	10" W.C.	230
ASH-125-50'	125,000	15' - 25'	50	20"	2"	70"	3.5" W.C.	10" W.C.	260
ASH-150-50'	150,000	18' - 30'	50	20"	2"	70"	3.5" W.C.	10" W.C.	260
ASH-150-60'	150,000	18' - 30'	60	20"	2"	70"	3.5" W.C.	10" W.C.	290
ASH-175-50'	175,000	18' - 30'	50	20"	2"	70"	3.5" W.C.	10" W.C.	260
ASH-175-60'	175,000	18' - 30'	60	20"	2"	70"	3.5" W.C.	10" W.C.	290
ASH-175-70'	175,000	18' - 30'	70	20"	2"	70"	3.5" W.C.	10" W.C.	330
ASH-200-50'	200,000	18' - 30'	50	20"	2"	70"	3.5" W.C.	10" W.C.	260
ASH-200-60'	200,000	18' - 30'	60	20"	2"	70"	3.5" W.C.	10" W.C.	290
ASH-200-70'	200,000	18' - 30'	70	20"	2"	70"	3.5" W.C.	10" W.C.	330
Pre-Assembled U TUBE Radient Tube Heating Systems... 8 or 16 Feet Long									
UASH-30-8'	30,000	8' - 10'	16	26"	12"	90"	3.5" W.C.	10" W.C.	160
UASH-45-8'	45,000	9' - 12'	16	26"	12"	90"	3.5" W.C.	10" W.C.	160
UASH-60-8'	60,000	10' - 15'	16	26"	12"	90"	3.5" W.C.	10" W.C.	160
UASH-60-16'	60,000	10' - 15'	32	26"	12"	90"	3.5" W.C.	10" W.C.	200
UASH-80-16'	80,000	10' - 18'	32	26"	12"	90"	3.5" W.C.	10" W.C.	200
UASH-100-16'	100,000	12' - 22'	32	26"	12"	90"	3.5" W.C.	10" W.C.	200





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